

# NHDOT SPR2 PROGRAM

## RESEARCH PROGRESS REPORT

### INSTRUCTIONS:

Project Managers and/or research project investigators should complete a progress report at least every three months during the project duration. Reports are due the 5<sup>th</sup> of the month following the end of the quarter. Please provide a project update even if no work was done during this reporting period.

|   |   |  |
|---|---|--|
| Project #<br>26962J   | <b>Report Period</b> Year: 2018<br><input type="checkbox"/> Q1 (Jan-Mar) <input type="checkbox"/> Q2 (Apr-Jun) <input checked="" type="checkbox"/> Q3 (Jul-Sep) <input type="checkbox"/> Q4 (Oct-Dec) |  |
| <b>Project Title:</b><br>UAS and Transportation Projects                        |   |  |
| <b>Project Investigator:</b> Jarlath O'Neil-Dunne<br><b>Phone:</b> 802-656-3324 |   | <b>E-mail:</b> joneildu@uvm.edu  |
| <b>Research Start Date:</b><br>December 1, 2016                                 | <b>Research End Date:</b><br>September 30, 2019   | <b>Project schedule status:</b><br><input type="checkbox"/> On schedule <input checked="" type="checkbox"/> Ahead of schedule <input type="checkbox"/> Behind schedule |

### Brief Project Description:

The overall objective of this project is to evaluate UAS technology for a broad range of case studies relating to the specific needs of the New Hampshire Department of Transportation (NH DOT). Specifically, this project seeks to:

1. Determine the types of transportation projects for which UAS are best suited for.
2. Evaluate the capabilities and limitations, along with the costs and benefits, of using UAS technology for a variety of transportation projects.
3. Outline the policies, procedures, staffing, and information technology infrastructure required for NH DOT to fully implement UAS technology.
4. Develop NH DOT's UAS capabilities.

### Progress this Quarter (include meetings, installations, equipment purchases, significant progress, etc.):

- UAS product transfer (Task 6)
- Minor updates to fact sheets (Task 8)

### Items needed from NHDOT (i.e., Concurrence, Sub-contract, Assignments, Samples, Testing, etc...):

- Feedback on latest versions of draft reports and fact sheets.

### Anticipated research next 3 months:

- Finalize reporting products (Task 8).

### Circumstances affecting project: Describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope, and budget, along with recommended solutions to those problems.

None.

| Tasks (from Work Plan)                             | Planned % Complete | Actual % Complete |
|--|--------------------|-------------------|
| Task 1: Establish a stakeholder advisory committee | 100%               | 100%              |
| Task 2: UAS Case Studies                           | 100%               | 100%              |
| Task 3: UAS Mission Planning Profiles              | 100%               | 100%              |
| Task 4: UAS Operations                             | 100%               | 100%              |
| Task 5: UAS Products                               | 100%               | 100%              |
| Task 6: Provide UAS Products to NH DOT             | 100%               | 100%              |

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|                                   |      |      |
|-----------------------------------|------|------|
| Task 7: Implementation Assessment | 100% | 100% |
| Task 8: Reporting                 | 90%  | 95%  |